

May 10, 2001

Subject: Request for Proposal (RFP) No. JPL-MAV-2001, Mars Ascent Vehicle Trade Study, Addendum 3

Based upon a continued review of the subject RFP and requests for clarification received from proposers, JPL makes the following revisions:

1. The original cover letter to the subject RFP, dated April 16, 2001 is deleted in its entirety and the attached new cover letter, dated May 10, 2001 is substituted therefor.
2. The original RFP No. JPL-MAV-2001 entitled "Mars Ascent Vehicle (MAV) Trade Study" with a date of issuance of April 16, 2001, is revised as follows:
 - 1.1 The due date for, proposals in response to the subject RFP is hereby extended until no later than 3:00 p.m. local time on June 6, 2001.
 - 1.2 On the RFP cover page delete the words "Mars Ascent Vehicle (MAV) Trade Study" and substitute "Mars Ascent Vehicle (MAV) Concept Study."
 - 1.3 Under the General Instructions, paragraph 3.0, delete the sentence that reads "Oral presentations are expected to begin the week of June 6, 2001."
 - 1.4 Under the General Instructions, paragraph 5.4, delete the final date to request clarifications of "May 10, 2001" and substitute the new date of "May 31, 2001."
 - 1.5 Delete paragraph 8.0 of the RFP General Instructions in its entirety and substitute new paragraph 8.0 as follows:

8.0 TECHNICAL AND MANAGEMENT EVALUATION CRITERIA

The Technical/Management evaluation criteria for this procurement are listed below. The factors shown under the criteria are not individually weighted for evaluation purposes and are not listed in any particular order.

8.1 Qualifications of Proposer and Study Team Personnel

Criterion 1 (500 points)

The degree to which the experience and skills of the team members and the organization are appropriate to conduct the study tasks and to assure a comprehensive and technically competent study effort. Factors to be considered are:

- 8.1.1 Experience of key personnel
- 8.1.2 Mix of personnel
- 8.1.3 Percentage of time being proposed for each key person
- 8.1.4 Proposed hours commensurate with the schedule and level two WBS
- 8.1.5 Organization's related experience in conducting system Concept studies of launch vehicles, upper stages or propulsive spacecraft such as required by this RFP
- 8.1.6 Organization's and subcontractor's (if subcontractor is proposed) related experience in design, analyses, fabrication, development, and test of launch vehicles, upper stages, or propulsive spacecraft systems

8.2 Technical/Management Approach and Commitment

Criterion 2 (500 points)

The degree to which the proposed technical/management approach reflects a viable and well thought-out approach for organizing and implementing the study effort and the degree to which the proposer is committed to providing the best possible product in a timely manner. Factors to be considered are:

- 8.2.1 The proposed approach for developing MAV system Concepts and the evaluation tools to be used during the study
- 8.2.2 Detailed mission concept analyses to be used, that includes integrated tools for subsystem modeling and end-to-end system integrated modeling
- 8.2.3 A study plan and schedule that correlates with the level two WBS and is consistent with the requirements set forth in the Specimen Contract
- 8.2.4 Lines of responsibilities and communications with your overall Program Management Organization
- 8.2.5 Corporate dedication in keeping key personnel and subcontractors through the end of the effort

- 1.6 Delete Volume I - Technical and Management Instructions, in its entirety and substitute new Volume I, Technical and Management Instructions, as follows:

VOLUME I - TECHNICAL/MANAGEMENT INSTRUCTIONS

1. INTRODUCTION

This portion of the proposal instructions sets forth the requirements to be followed in preparing the Technical/Management Proposal. The following specific information must be included in your proposal to permit an evaluation of your technical and management capabilities:

1.1. Part 1 Qualifications of Proposer and Study Team Personnel

List your proposed key team members, personnel and subcontractor personnel. Describe their experience working on space system Concept studies. Describe their experience in the areas of liquid, solid, gel, and hybrid (solid/liquid) propulsion systems which are appropriate and feasible for Mars Ascent Vehicles. Describe how your system engineer is supported by the subsystem engineers in the areas of propulsion (liquid, solid, hybrid, and gel), Reaction Control Systems (RCS), Guidance, Navigation & Control (GN&C), Trajectory, Reliability, Avionics, Structures and Thermal. Discuss how your proposed number of direct labor hours will be appropriate to match your proposed level two WBS and the schedule in the Specimen Contract. Discuss the percentage of time proposed for each key person assigned to this effort. Describe your organization's related experience and subcontractor's (if subcontractor is proposed) related experience in conducting launch vehicle, upper stage, or propulsive spacecraft Concept studies and in the design, analysis, fabrication, development and test of launch vehicles.

1.2 Part 2 Technical/Management Approach and Commitment

Discuss in detail your proposed approach for developing MAV system Concepts and your evaluation tools to be used. Describe the detailed mission concept analyses to be used, including the use of appropriate integrated tools for subsystem modeling and end-to-end system integrated modeling.

Provide a detailed Study Plan, including the level two WBS, study flow, approaches, methodology, and an organization of the study team. Provide a plan for meeting and achieving the proposed study schedule as outlined in the Specimen Contract.

Discuss how your management organization will integrate with the overall organization in lines of authority, responsibility and

communications. Discuss your corporate commitment to keep key personnel available for this effort, including subcontractors, and discuss how resource issues are resolved.

- 1.7 Delete Volume II - Cost Instructions, in its entirety and substitute new Volume II, Cost Instructions, as follows:

VOLUME II - COST INSTRUCTIONS

This portion of the proposal instructions outlines the requirements to be followed in preparing the cost proposal:

1. DATA SUBMITTAL

Provide a total price for each item listed in Article 2 of the Specimen Contract and the applicable supporting data requested in paragraph a, below. Note that if any of the current information requested below has been previously submitted to JPL resubmittal is not necessary; simply reference the applicable JPL RFQ or RFP number under which the data was submitted.

a. Price or Cost Breakdown.

Submit the following cost information, summarized by cost element. Labor should be proposed by work hour, not work month, and provided at WBS level two. Provide a breakdown of all labor categories and associated hours to perform the effort as defined in the Specimen Contract. This information should be submitted using Attachment A-19, Cost Elements Breakdown (Short Form). An A-19, Cost Elements Breakdown (Short Form) must be provided for each of the two deliverable items specified in Article 2. It is not necessary to provide a WBS level two breakdown of costs, only hours, as indicated above. Proposers may provide the requested information, as applicable, on an alternate computer-generated form.

2. SUPPLEMENTAL BUSINESS/COST INFORMATION

a. Financial Statement.

Submit a copy of your annual financial statements for the last three years and any information regarding additional resources required to perform the proposed effort such as an established line of credit or other financial resource. If this information has recently been submitted to JPL, resubmittal is not necessary; simply reference the applicable JPL RFP number under which the data was submitted.

b. Royalties.

If your proposal contains costs for royalties, indicate the amount and be ready to furnish details.

c. Accounting Calendar.

The proposer will furnish its accounting calendar for each year in which work is anticipated.

d. Attachments.

The Section of this RFP entitled "Attachments" consists of those forms and documents containing information applicable to this RFP. Group A Attachments must be completed and attached to your cost proposal. Group B attachments consist of forms and documents for informational purposes only and can be found through the electronic address identified below. Hard copies of the Group B Attachments will be mailed by request only. Note that Group B Attachments are very important and may become requirements under the Contract.

Additionally, the General Provisions (GPs) and Additional General Provisions (AGPs) stated in the attached Specimen Contract can be found at the following URL address:

<http://acquisition.jpl.nasa.gov/e2000.htm>

3. The original Specimen Contract in the subject RFP, dated 04/05/01, and associated Exhibits, dated 03/15/01, are deleted in their entirety and the attached new Specimen Contract and Exhibits, dated 05/08/01 are substituted therefor.
4. JPL will address questions from proposers in a separate addendum to be issued shortly after this one.